

Abstract

A technique is disclosed that enables both an IEEE 802.11 transceiver and a Bluetooth transceiver to be employed in a single wireless telecommunication station (e.g., a device supporting a wireless telephone, personal digital assistant, etc.) without interfering on each other. In particular, the illustrative embodiment enables standard "off-the-shelf" IEEE 802.11 and Bluetooth transceivers to work in a coordinated fashion in a single telecommunications terminal. In the illustrative embodiment, an IEEE 802.11 transceiver that uses a shared-communications channel notifies a Bluetooth transceiver that a transmit opportunity exists and that the Bluetooth transceiver has permission to use the shared-communications channel. The technique disclosed is also applicable to communications protocols other than IEEE 802.11 and Bluetooth.